Notice of Allowability	Application No.	Application No. Applicant(s)	
	10/707,841	VANCET AL	
	Examiner	YANG ET AL. Art Unit	
	last. Ob a s		
	Jack Chen	2813	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commits application is	n this application. If not included unication will be mailed in due course	. THIS initiative
1. This communication is responsive to <u>6/26/07</u> .			
2. The allowed claim(s) is/are 1-17 and 31.			
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority uner a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>		or (f).	
<ol><li>Certified copies of the priority documents have</li></ol>	e been received in Application	on No	
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been receive	ed in this national stage application fro	m the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:	•		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file IENT of this application.	e a reply complying with the requirement	ents
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EX es reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE or declaration is deficient.	OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		w ( PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	,		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on t he header according to 37 Cl	the drawings in the front (not the back) of FR 1.121(d).	of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.	<b>;</b>
•			
Attachment(s)			
1. ☑ Notice of References Cited (PTO-892)	5. Notice of Ir	nformal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview S	ummary (PTO-413),	
3. ⊠ Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's	/Mail Date Amendment/Comment	
Paper No./Mail Date <u>See Continuation Sheet</u> 4.   Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	Statement of Reasons for Allowance	
of Biological Material	9.		
	<del>_</del> .	_	

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 1/22/04, 8/23/05, 5/24/06.

## **DETAILED ACTION**

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Re claim 1, line 9, change the phrase "the semiconductor substrate" to –a semiconductor substrate--.

Re claim 7, line 2, change the term "transistor" to –device--.

Re claim 9, line 2, change the phrase "p-type transistor" to -p-type device--.

Re claim 9, line 2, change the phrase "n-type transistor" to --n-type device--.

Re claim 14, line 7, change the phrase "the semiconductor substrate" to –a semiconductor substrate—.

Re claim 31, line 7, change the phrase "the semiconductor substrate" to –a semiconductor substrate--.

## Reasons For Allowance

- 2. Claims 1-17 and 31 are allowable over the prior art of record.
- 3. The following is an examiner's statement of reasons for allowance: the prior art of record neither teach nor make obvious the claimed limitation of the instant application as a whole as recited in claims 1, 14 and 31, respectively. In particular, the prior art does not teach or suggest the particular subset of the process steps for forming a device including an n-type device and a p-

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type device by adjusting the shallow trench isolation oxide corresponding to at least one of the n-type device and the p-type device such that a thickness of the shallow trench isolation oxide adjacent to the n-type device is different from a thickness of the shallow trench isolation oxide adjacent to the p-type device or adjusting the height of the boundary such that the boundary adjacent to the n-type device is at a level which is different from a level of a height of the boundary adjacent to the p-type device; and forming a strain layer over the semiconductor substrate.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack Chen whose telephone number is (571)272-1689. The examiner can normally be reached on Monday-Friday (8:00am-4:30pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead can be reached on (571)272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jack Chen

**Primary Examiner** 

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February 4, 2008